

Global Thermally Expandable Microspheres Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G5F7F502EF27EN.html>

Date: February 2026

Pages: 120

Price: US\$ 3,480.00 (Single User License)

ID: G5F7F502EF27EN

Abstracts

According to our (Global Info Research) latest study, the global Thermally Expandable Microspheres market size was valued at US\$ 672 million in 2025 and is forecast to a readjusted size of US\$ 1076 million by 2032 with a CAGR of 7.0% during review period.

Thermal expansion microspheres are thermoplastic hollow polymer microspheres, consisting of a thermoplastic polymer shell and enclosed liquid alkane gas. When heated, the gas pressure within the shell increases and the thermoplastic shell softens, allowing the expanded microspheres to increase in volume significantly. When cooled, the expanded microsphere shell hardens again and has a fixed volume. Thermal expandable microspheres have a variety of properties, including expandability, thermal stability, particle size control, shell thickness, chemical resistance, elasticity, air tightness and mechanical strength. These properties make thermally expandable microspheres widely used in many fields.

The upstream supply chain primarily relies on specialty chemical raw materials, including monomers such as vinylidene chloride, acrylonitrile, and acrylates used as shell materials, and low-boiling point hydrocarbons (such as isopentane and isobutane) encapsulated inside as physical blowing agents.

Global sales are projected to be approximately 180,000 tons in 2025, with an average market price of approximately US\$3,630 per ton. The industry's gross profit margin is in the range of 15%-30%.

The driving force behind the continuous expansion of the thermal expansion microsphere market stems from the global industrial pursuit of lightweighting and

intelligent interaction. For example, by adding microspheres to automotive interiors and coatings, component density can be significantly reduced without sacrificing structural strength, directly improving the range of electric vehicles. National industrial policies also create a favorable environment for the industry; relevant guidelines list high-performance composite materials as key strategic materials and encourage their development. However, the production of high-performance thermal expansion microspheres faces high technological barriers, such as the difficulty in precisely controlling the uniformity of the polymer network in the microsphere shell, which affects the stable improvement of product quality.

This report is a detailed and comprehensive analysis for global Thermally Expandable Microspheres market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermally Expandable Microspheres market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Thermally Expandable Microspheres market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Thermally Expandable Microspheres market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Thermally Expandable Microspheres market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Thermally Expandable Microspheres
- To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermally Expandable Microspheres market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nouryon, Kumyang, Dongjin Semichem, SEKISUI, Matsumoto Yushi-Seiyaku, Kureha, Chase Corporation, Crerax, Hunan Farida, Yunyan Materials Science, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Thermally Expandable Microspheres market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Low Temperature Expansion Type
- Medium Temperature Expansion Type
- High Temperature Expansion Type
- Ultra High Temperature Expansion Type

Market segment by Form

- Unexpanded
- Pre-expanded

Market segment by Particle Size

5-15 ?m

20-40 ?m

Other

Market segment by Application

Plastics

Inks and Coatings

Adhesives

Construction

Other

Major players covered

Nouryon

Kumyang

Dongjin Semichem

SEKISUI

Matsumoto Yushi-Seiyaku

Kureha

Chase Corporation

Crerax

Hunan Farida

Yunyan Materials Science

Hytitan

Zhejiang Shuntai Rubber and Plastic Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermally Expandable Microspheres product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermally Expandable Microspheres, with price, sales quantity, revenue, and global market share of Thermally Expandable Microspheres from 2021 to 2026.

Chapter 3, the Thermally Expandable Microspheres competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermally Expandable Microspheres breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermally Expandable Microspheres market forecast, by regions, by Type,

and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermally Expandable Microspheres.

Chapter 14 and 15, to describe Thermally Expandable Microspheres sales channel, distributors, customers, research findings and conclusion.

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